

From: Rand Crafts
To: Milka Radulovic
Date: Wed, Nov 19, 2003 1:51 PM
Subject: IPP Burner Replacement

Milka,

Info on the operational performance of current IPP burners is attached. Note that the data indicate the present burners are capable of 248 mmbtu/hr. Current burners are B&W Dual Register, Phase 5 burners, with a 58" throat.

The new burners will be Advanced Burner Technologies (ABT), Opti-Flow burners, with a 51" throat, design rated at 220 mmbtu/hr.

The heat input limitation prior to the dense pack project was due to the boiler and turbine capability. The heat input limitation is now due to the mills, B&W Model MPS89. The burners have never been a bottleneck, so replacement will not increase mmbtu/hr capacity of the boiler.

I believe this wraps up all the info you have requested. Please acknowledge and let me know what you think the timeline will be for publishing an ITA. Thanks.

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CC: Blaine Ipson; James Nelson

Turbine Acceptance Test Results: Maximum Heat Input

Plant Info: 8 mills per unit
6 burners per mill
Normal Operating Mode: 7 mills
High Performance Mode: 6 mills

| Unit 2 | | | | | | Total | Heat per burner |
|---------|--------|-------|--------|------------|-------------|---------|-----------------|
| | Test # | MW | ton/hr | # pulv t/s | PI HHV coal | Mbtu/hr | Mbtu/hr |
| 4/11/02 | 7 | 985.5 | 370.6 | 6 | 12,050 | 8931.46 | 248.10 |
| 4/11/02 | 8 | 982.6 | 370.5 | 8 | 12,050 | 8929.05 | 248.03 |
| 5/14/02 | 9 | 975.5 | 394.02 | 7 | 11,879 | 9361.13 | 222.88 |
| 5/14/02 | 10 | 973.1 | 392.64 | 7 | 11,879 | 9328.34 | 222.10 |

| Unit 1 | | | | | | Total | Heat per burner |
|---------|--------|-------|--------|------------|-------------|---------|-----------------|
| | Test # | MW | ton/hr | # pulv t/s | PI HHV coal | Mbtu/hr | Mbtu/hr |
| 4/17/03 | 8 | 979.6 | 388.8 | 7 | 11,877 | 9230.80 | 219.78 |
| 4/18/03 | 9 | 976.6 | 390.1 | 7 | 11,877 | 9266.44 | 220.63 |
| 5/29/03 | 10 | 969.3 | 390.1 | 7 | 11,730 | 8917.15 | 212.31 |
| 5/29/03 | 11 | 969.3 | 393.2 | 7 | 11,730 | 9224.47 | 219.63 |